Technical Cybersecurity

Python

Using Python

We will use a significant amount of Python!

- It's straightforward
- It has great data support and imports system libraries via the ctypes module
- It has great experimental and command line support
- Great for packet manipulation via the scapy module
- Variety of fuzzing frameworks (AFL, Sulley, Fuzzing, others)

I don’t know Python!

Where to start?

- Well, this isn’t a python class but there’s lots of resources
- Start here: https://www.python.org/about/gettingstarted/
- This will get you started!

Syntax is pretty easy

- Use python 3.x, not python 2.x
- You may need 2.x for some modules though
- …so let’s check out virtual environments!

Tools!

Use virtual environments

- see: https://virtualenvwrapper.readthedocs.io/en/latest/
- $ mkvirtualenv hack

Then install a few tools

- I always use these so start with them:
- (hack) $ pip install ipython jupyter ipdb

Okay, onto attack vectors!